

1741
PATENT

Case Docket No. SAEG106.001APC
Date: May 21, 2002



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Nishino, et al.

Appl. No. : 10/070,048

Filed : February 22, 2002

For : METHOD FOR ABSOLUTE
ASYMMETRIC SYNTHESIS

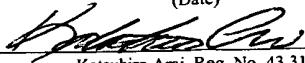
Examiner : Unknown

Group Art Unit : Unknown

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(Date)


Katsuhiro Arai, Reg. No. 43,315

TRANSMITTAL LETTER

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ATTENTION: APPLICATION BRANCH

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Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement; PTO Form 1449 with twelve (12) references.
- (X) A copy of International Search Report (PCT/ISA/210).
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant	:	Nishino, et al.) Group Art Unit Unknown
App. No.	:	10/070,048)
Filed	:	February 22, 2002)
For	:	METHOD FOR ABSOLUTE ASYMMETRIC SYNTHESIS)
Examiner	:	Unknown)

INFORMATION DISCLOSURE STATEMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Enclosed is form PTO-1449 listing references that are also enclosed. As indicated in the accompanying Form PCT/ISA/210, all of the listed references were cited in the International Search Report in the international phase of the present U.S. national phase application. The document "First Reversible Asymmetric Photoisomerization with Circularly Polarized Light:Absolute Asymmetric Synthesis of Norbornadiene and Quadricyclane" is relevant as being cited in Form PCT/ISA/210, however, no English translation is available. Although these references already of record during the International Phase of the application, they are submitted in the present Information Disclosure Statement for the convenience of the Examiner and to endure that the references are listed on the cover of any patent issued on the present application. This Information Disclosure Statement is being filed within three months of the filing date of this application or upon filing if this is a CPA or RCE, and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1), (b)(2), or (b)(4).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 21, 2002

By: 

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FORM PTO-1449 O I P E JCS MAY 24 2002 U.S. PATENT & TRADEMARK OFFICE	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SAEG106.001APC	APPLICATION NO. 10/070,048
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Nishino, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 22, 2002	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
		57-147577	09/11/82	Japan			Abstract
		EP 0 285 175	10/05/88	Europe			
		EP 0 658 373	06/21/95	Europe			
		09-077691	03/25/97	Japan			Abstract
		2000-86588	03/28/00	Japan			Abstract

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
1.	Tran, C.D., et al., "Stereoselective Energy Transfer Induced by Circularly Polarized Light," <i>Study Phys. Theory Chem.</i> Vol.7 p.53-66, 1979	
2.	Miesen, F.W.A.M., et al., "Synthesis of Optically Pure 3-(<i>n</i> Pr ⁺)-(1S,6R)-Bicyclo[4.4.0]decane-3,8-dione, a Molecule Which is Chiral in the Excited State Only," <i>J.Am. Chem.Soc.</i> , Vol.116, No.12, p.5129-5133, 1994	
3.	Inoue, Y., et al., "Hikari de Fussei Goussei ni semaru," <i>Sakigake Kenkyu 21 Kenkyu Houkokukai, Hikari to Busshitsu Kouen Youshishuu</i> 1994, p.42-48, 1995	
4.	Salam, A., et al., "On enantiomeric excess obtained from racemic mixtures by using circularly polarized pulsed lasers of varying durations," <i>Chem.Phys.</i> Vol.228, No. 1, p.115-128, 1998	
5.	Burnham, K.S., et al., "A Search for Chiral Photochromic Optical Triggers for Liquid Crystals: Photoracemization of 1, 1-Binaphthylpyran through a Transient Biaryl Quinone Methide Intermediate," <i>J.Am.Chem.Soc.</i> , Vol.120, No. 48, p.12619-12625, 1998	
6.	Inoue, Y., et al., "Pressure and Temperature control of Product Chirality in Asymmetric Photochemistry. Enantiodifferentiating Photoisomerization of Cyclooctene Sensitized by Chiral Benzenepolycarboxylates," <i>J.Am.Chem.Soc.</i> , Vol.120, No. 41, p.10687-10696, 1998	
7.	Nishino, H., et al., "First Reversible Asymmetric Photoisomerization with Circularly Polarized Light: Absolute Asymmetric Synthesis of Norbornadiene and Quadricyclane," <i>Proceedings II of 1999 76th National Meeting of Chemical Society of Japan</i> , p.1157, 1C741, March 15, 1999	

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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	